

## CONTENTS

### Number 1

KURT DANNER

HOSSEIN MIRCHAMSY, TSEHAY NEWAY,  
MOHAMMAD HAMEDI  
and CHARLES PILET

C. BARRIGA IBARS, A. B. RODRÍGUEZ,  
I. POMBERO, J. DURÁN, J. CARDESA  
and E. ORTEGA

K. MOHAN, P. J. KELLY, F. W. G. HILL, 29  
P. MUVAVARIRWA and A. PAWANDIWA

C. PAPADOPOULOU, D. DIMITRIOU,  
S. LEVIDIOTOU, H. GESSOULI,  
A. PANAGIOU, S. GOLEGOU  
and G. ANTONIADES

RACHEL C. ABBOTT, BRUNO B. CHOMEL, 41  
RICKIE W. KASTEN,  
KIM A. FLOYD-HAWKINS,  
YOKO KIKUCHI, JANE E. KOEHLER  
and NIELS C. PEDERSEN

N. K. MAITI and P. SARKAR

N. K. MAITI and P. SARKAR

STÉPHANE RIOUX, DANIEL DUBREUIL,  
CAROLINE BÉGIN, CRAIG LAFERRIÈRE,  
DENIS MARTIN and MARIO JACQUES

A. WŁOSNIEWSKI, M. A. LERICHE,  
C. CHAVIGNY, P. ULMER, V. DONNAY,  
H. J. BOULOUIS, PH. MAHL  
and P. DRUILHE

- 1 Announcement: New Review Section
- 3 Acceptability of bio-engineered vaccines
- 13 Adjuvanticity of pGPL-Mc and LRS in the immune responses of monkeys to oral immunization with diphtheria and tetanus toxoids
- 21 Effect of serum from breast- or formula-fed infants on polymorphonuclear leukocyte function
- 29 Phenotype and serotype of *Pasteurella multocida* isolates from diseases of dogs and cats in Zimbabwe
- 35 Bacterial strains isolated from eggs and their resistance to currently used antibiotics: is there a health hazard for consumers?
- 41 Experimental and natural infection with *Bartonella henselae* in domestic cats
- 53 Structural polypeptides of different clinical strains of avian adenovirus type-1
- 59 Humoral immune response of chicks to different clinical isolates of avian adenovirus type-1
- 63 Evaluation of protective efficacy of an *Actinobacillus pleuropneumoniae* serotype 1 lipopolysaccharide-protein conjugate in mice
- 75 Etude du portage asymptomatique de *Babesia canis* en zone d'enzootie

- J. B. DIXON 87 Echinococcosis
- S. NANDI, V. V. S. SURYANARAYANA, 95 Biochemical characterization of FMDV A<sub>10</sub> and  
N. BANUMATHI and A. K. SEN A<sub>22</sub> subtypes by PAGE and IEF
- I PatentsALERT
- Number 2**
- MALCOLM BENNETT and 101 Review  
MICHAEL E. BEGON Virus zoonoses—a long-term overview
- ANDRZEJ HOSZOWSKI and 111 Prevention of *Salmonella typhimurium* caecal  
MARIAN TRUSCZYŃSKI colonisation by different preparations for competitive exclusion
- KRISTINA KLINTEVALL, 119 Bovine leukemia virus: early reflections in blood  
LISBETH FUXLER and after an experimental infection of calves  
CAROLINE FOSSUM
- ELISABETH A. INNES 131 Toxoplasmosis: comparative species susceptibility and host immune response
- W. AHNE and A. MAYR 139 Poxvirus preparation CONPIND initiates production of the major inflammatory mediators IL-1 $\alpha$  and TNF- $\alpha$  in human whole blood and in blood mononuclear cell cultures
- MARK G. STEVENS, STEVEN C. OLSEN, 147 Role of immune responses to a GroEL heat shock protein in preventing brucellosis in mice vaccinated with *Brucella abortus* strain RB51  
GEORGE W. PUGH  
and JOHN E. MAYFIELD
- MARK G. STEVENS, STEVEN C. OLSEN, 155 Comparative effects of bovine cytokines on cattle and bison peripheral blood mononuclear cell proliferation  
and NORMAN F. CHEVILLE
- H. J. L. BROOKS, K. A. BETTELHEIM, 163 Non-O157 Vero cytotoxin producing *Escherichia coli*: aetiological agents of diarrhoea in children in Dunedin, New Zealand  
B. TODD and M. D. HOLDWAY
- R. PESHEV, R. BOSTANDJIEVA and 171 Interference activity of bovine herpes virus 1 strains against Aujeszky's disease virus in cell cultures  
H. HARALAMBIEV
- A. PANSHIN, E. SHIHMANTER, 177 Antigenic epitope characterization of matrix protein of Newcastle disease virus using monoclonal antibody approach: contrasting variability amongst NDV strains  
Y. WEISMAN, C. ÖRVELL and  
M. LIPKIND

IRMA ESTEBAN-REDONDO  
and ELISABETH A. INNES

- 191 *Toxoplasma gondii* infection in sheep and cattle

I Announcements

III PatentsALERT

**Number 3**

DAVID MCK. HAIG, COLIN MCINNES,  
DAVID DEANE, HUGH REID and  
ANDREW MERCER

- 197 The immune and inflammatory response to orf virus

R. LEGROTTAGLIE, V. RIZZI and  
P. AGRIMI

- 205 Isolation and identification of avian rotavirus from pheasant chicks with signs of clinical enteritis

IMAELDIN E. ARADAIB,  
MOHAMMED E. H. MOHAMMED,  
MUAWIA M. MUKHTAR,  
HASHIM W. GHALIB and  
BENNIE I. OSBURN

- 211 Serogrouping and topotyping of Sudanese and United States strains of epizootic hemorrhagic disease virus using PCR

ANSELMO C. ODEÓN,  
CAROLINE E. SCHORE and  
BENNIE I. OSBURN

- 219 The role of cell-mediated immunity in the pathogenesis of bluetongue virus serotype 11 in the experimental infection of vaccine/sensitized calves

C. VALENTE, S. DEMAS, S. SCARSO,  
V. CUTERI, L. JOB, S. MARANGON,  
L. DALLA VALLE and  
F. M. CANCELLOTTI

- 233 The polymerase chain reaction for the identification of different species of *Mycobacterium*

I. I. ALEXANDROV, R. A. TOSHKOVA,  
K. K. NOEVA, S. I. ZACHARIEVA,  
A. A. FILCHEV, M. T. ALEXANDROV  
and N. Z. SOTIROV

- 241 Monoclonal antibodies to a tumour-associated antigen isolated from circulating immune complexes of bovine leukemia virus-infected cattle

O. FERRER, F. REAL, J. M. MOLINA,  
B. ACOSTA, M. C. MUÑOZ and L. LEON

- 253 IgG concentration in mammary secretions of goats throughout lactation in healthy and coagulase-negative staphylococci infected udders

WAY-SHYAN WANG and  
DUEN-HORNG WANG

- 261 Enhancement of the resistance of tilapia and grass carp to experimental *Aeromonas hydrophila* and *Edwardsiella tarda* infections by several polysaccharides

R. MANANDHAR, S. S. BETTIOL,  
K. A. BETTELHEIM and  
J. M. GOLDSMID

I. E. ARADAIB, A. W. BREWER and  
B. I. OSBURN

- 271 Isolation of verotoxigenic *Escherichia coli* from the Tasmanian environment

**281 Short Note**

Interaction of epizootic hemorrhagic disease virus with bovine erythrocytes *in vitro*: electron microscope study

**I Announcements**

**III PatentsALERT**

**Number 4**

M. UTRIAINEN, K. JALAVA, A. SUKURA  
and M. L. HÄNNINEN

R. GUPTA, S. GUPTA, K. JOSHI  
and N. K. GANGULY

G. M. BHOPALE, S. R. NAIK,  
G. G. BHAVE, S. S. NAIK and  
A. GOGATE

G. CASTRUCCI, W. B. MARTIN,  
F. FRIGERI, M. FERRARI,  
D. SALVATORI, S. TAGLIATI  
and V. CUTERI

H. ELLAKANY, KATALIN FÁBIÁN and  
L. STIPKOVITS

FOUZIA RHAZI FILALI, ABDELHAMID  
ZAID, ZOUBIR ZEKHNINI and  
JEAN-MARIE FRERE

ZYGMUNT PEJSAK and  
IWONA MARKOWSKA-DANIEL

- 285 Morphological diversity of cultured canine gastric *Helicobacter spp.*

- 299 Role of iron and iron chelation therapy in oxygen free radical mediated tissue injury in an ascending mouse model of chronic pyelonephritis

- 309 Assessment of enzyme linked immunosorbent assay based diagnostic kits (Toxokit-G and Toxokit-M) for the detection of IgG and IgM antibodies to *Toxoplasma gondii*

- 315 A serological survey of bovine herpesvirus-1 infection in selected dairy herds in northern and central Italy

- 319 Immunoblot examination of humoral response of chickens infected with *Mycoplasma gallisepticum* at various ages

- 335 Recherche de bactéries thermophiles résistantes aux antibiotiques dans les bains traditionnels

- 345 Losses due to porcine reproductive and respiratory syndrome in a large swine farm

